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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/829,781	04/10/2001	Tsung-Yuan Hsu	B-3916 617818-6	1039	
36716 LADAS & PAI	7590 · 04/03/2007	EXAMINER			
5670 WILSHIF	RE BOULEVARD, SUITE	NGUYEN, DUNG T			
LOS ANGELES, CA 90036-5679		ART UNIT	PAPER NUMBER		
		2828			
SHORTENED STATUTORY PERIOD OF RESPONSE MAIL DATE			DELIVERY MODE		
3 MO	NTHS	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Ap	plication No.	Ар	plicant(s)				
Office Action Summary		09	9/829,781	нѕ	U ET AL.				
		Ex	aminer	Art	Unit				
		Du	ing (Michael) T. Ngu	yen 282	28				
The MA Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
A SHORTENE WHICHEVER - Extensions of tim after SIX (6) MON - If NO period for re - Failure to reply w Any reply receive	ED STATUTORY PERIOD IS LONGER, FROM THE IN e may be available under the provision ITHS from the mailing date of this compply is specified above, the maximum sithin the set or extended period for repl d by the Office later than three months m adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will app y will, by statute, caus	OF THIS COMMU In no event, however, ma ply and will expire SIX (6) e the application to become	JNICATION. ay a reply be timely fil MONTHS from the m ne ABANDONED (35	ed alling date of this communication. U.S.C. § 133).				
Status									
2a) ☐ This act 3) ☐ Since th	sive to communication(s) file ion is FINAL . is application is in condition accordance with the pract	2b)⊠ This acti for allowance o	on is non-final. except for formal n	•	7				
Disposition of Claims									
4a) Of th 5) Claim(s) 6) Claim(s) 7) Claim(s) 8) Claim(s) 8) Claim(s) 4pplication Pape 9) The spec 10) The draw Applicant Replacer	1-34 is/are pending in the e above claim(s) is/a is/are allowed. 1-10,19-34 is/are allowed. 11-14 is/are rejected. 15-18 is/are objected to. 15-18 is/are subject to restrict are subject to restrict are subject to by the ving(s) filed on is/are that any objected that any objected that any objected that are objected is or declaration is objected to	are withdrawn from the ction and/or election and/or election accepte ection to the drawing the correction is	ection requirement. d or b) objected ving(s) be held in abe s required if the dray	I to by the Exar eyance. See 37 ving(s) is objecte	CFR 1.85(a). d to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
	person's Patent Drawing Review (dosure Statement(s) (PTO/SB/08)		Paper	ew Summary (PTC No(s)/Mail Date of Informal Patent 					

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 11-14 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Ogusu (2005/0169641).

With respect to claims 11 and 13, Ogusu shows in Fig.3 a method of enhancing the modulation bandwidth of a laser, the DFB laser 21a having a operating frequency and having an output and an input, the method comprising the steps of:

- (a) tapping 40 the output from the laser to thereby define a tapped optical signal;
- (b) shifting the frequency (modulator 42 and as pointed out in Fig.1 and para.0016 of this instant application, the modulator 16 is used to shift the laser frequency. Hence, the Ogusu modulator 42 is also used to shift the laser frequency) of the tapped optical signal to thereby define a shifted optical signal;

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(c) feeding the shifted optical signal back into the input of the laser (from optical branch circuit to DFB laser 21a).

With respect to claim 14, Ogusu teaches the Mach-Zehnder modulator (para.0076).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogusu (2005/0169641) in view of Ih (4768852).

Ogusu discloses all limitations of the claims except for the Surface Acoustic Wave (SAW).

Ih teaches a SAW (col.1, line 36).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ogusu what is taught by Ih to employ an alternative modulator (col.1, line 36).

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Allowable Subject Matter

Claims 15-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-10 and 19-34 are allowed.

Claims 1, 19, 23, and 30 are allowed over the Ogusu, Mossberg et al., Brenner et al., and Ih prior art because they fail to teach, taken singly or combined, the limitations of a modulator for generating two sidebands and a filter coupled to an output of the modulator for suppressing or passing on of the two sidebands, and an optical path coupling an output of the filter to the laser for injection locking.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

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Michael Dung Nguyen

3/27/07